

IN THE CLAIMS:

Claims 1-38 (Canceled)

Claim 39 (New): A precise positioning actuator to be fixed with a head slider with at least one head element and with a support, for precisely positioning said at least one head element, comprising:

a pair of movable arms capable of displacing in response to a drive signal applied to said actuator, for catching said head slider in a space between said movable arms; and

a base fixed to said support, said movable arms extending from said base, inner corners at coupling sections of said base and said movable arms having an obtuse angle plane shape or a smooth plane shape.

Claim 40 (New): The actuator as claimed in claim 39, wherein said movable arms have at their top end sections slider fixing sections to be fixed to side surfaces of said head slider, respectively.

Claim 41 (New): The actuator as claimed in claim 40, wherein said actuator has a shape so that there exists air gaps between said movable arms and side surfaces of said header slider except for said slider fixing sections, respectively.

Claim 42 (New): The actuator as claimed in claim 39, wherein said base is made of an elastic sintered ceramic.

Claim 43 (New): The actuator as claimed in claim 42, wherein said elastic sintered ceramic is ZrO_2 .

Claim 44 (New): The actuator as claimed in claim 39, wherein each of said movable arms comprises an arm member made of an elastic sintered ceramic, and a piezoelectric element formed on a side surface of said arm member.

Claim 45 (New): The actuator as claimed in claim 44, wherein said elastic sintered ceramic is ZrO_2 .

Claim 46 (New): The actuator as claimed in claim 39, wherein said movable arms are constituted so that said head slider is linearly and laterally oscillated in response to the drive signal.

Claim 47 (New): The actuator as claimed in claim 39, wherein said actuator has an approximately U-plane shape.

Claim 48 (New): The actuator as claimed in claim 39, wherein said actuator has a thickness equal to or less than a thickness of a head slider to be caught.

Claim 49 (New): the actuator as claimed in claim 39, wherein a spacing between said pair of movable arms is determined to a value slightly less than a width of said head slider to be caught.

Claim 50 (New): The actuator as claimed in claim 39, wherein said at least one head element is at least one thin-film magnetic head element.

Claim 51 (New): A head gimbal assembly including ahead slider with at least one head element, a support and a precise positioning actuator fixed with said head slider and with said support for precisely positioning said at least one head element, said actuator comprising a pair of movable arms capable of displacing in response to a drive signal applied thereto and a base fixed to said support, said movable arms extending from said base, said head slider being caught in a space between said movable arms, inner corners at coupling sections of said base and said movable arms having an obtuse angle plane shape or a smooth plane shape.

Claim 52 (New): The head gimbal assembly as claimed in claim 51, wherein said movable arms have at their top end sections slider fixing sections fixed to side surfaces of said head slider, respectively.

Claim 53 (New): The head gimbal assembly as claimed in claim 51, wherein said actuator has a shape so that there exists air gaps between said movable arms and side surfaces of said head slider except for said slider fixing sections, respectively.

Claim 54 (New): The head gimbal assembly as claimed in claim 51, wherein said base is made of an elastic sintered ceramic.

Claim 55 (New): The head gimbal assembly as claimed in claim 54, wherein said elastic sintered ceramic is ZrO_2 .

Claim 56 (New): The head gimbal assembly as claimed in claim 51, wherein each of said movable arms comprises an arm member made of an elastic sintered ceramic, and a piezoelectric element formed on a side surface of said arm member.

Claim 57(New): The head gimbal assembly as claimed in claim 56, wherein said elastic sintered ceramic is ZrO_2 .

Claim 58 (New): The head gimbal assembly as claimed in claim 51, wherein said movable arms are constituted so that said head slider is linearly and laterally oscillated in response to the drive signal.

Claim 59 (New): The head gimbal assembly as claimed in claim 51, wherein said actuator has an approximately U-plane shape.

Claim 60 (New): The head gimbal assembly as claimed in claim 51, wherein said actuator has a thickness equal to or less than a thickness of said head slider.

Claim 61 (New): The head gimbal assembly as claimed in claim 51, wherein a spacing between said pair of movable arms is determined to a value slightly less than a width of said head slider.

Claim 62 (New): The head gimbal assembly as claimed in claim 51, wherein said at least one head element is at least one thin-film magnetic head element.

Claim 63 (New): The head gimbal assembly as claimed in claim 51, wherein said movable arms of said actuator and said head slider are fixed with an adhesive.

Claim 64 (New): The head gimbal assembly as claimed in claim 51, wherein said actuator and said support are fixed with an adhesive and a solder.